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Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in this application:

Listing of Claims:

1. (Currently Amended) A light valve for use in an imaging system, the light valve comprising a plurality of individually driven channels, each channel driveable independently of each of the other channels in response to a single driver input signal to output a corresponding radiation beam from the light valve, the channels and their corresponding output radiation beams having non-uniform size in accordance with a pre determined regular pattern to be imaged sizes.
2. (Currently Amended) The light valve of claim 1, wherein the light valve has at least one low resolution channel corresponding to a low resolution feature in the a regular pattern to be imaged.
3. (Original) The light valve of claim 2, wherein the low resolution channel comprises a plurality of light valve elements connected to a driver.
4. (Currently Amended) The light valve of claim 2, A light valve for use in an imaging system, the light valve comprising a plurality of individually driven channels, the channels having non-uniform sizes in accordance with a pre-determined regular pattern to be imaged; wherein the light valve has at least one low resolution channel corresponding to a low resolution feature in the

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regular pattern and wherein the light valve has at least one high resolution channel corresponding to an edge of the low resolution feature.

5. (Original) The light valve of claim 4, wherein the high resolution channel comprises at least one light valve element connected to a driver.
6. (Original) The light valve of claim 5, comprising at least one high resolution channel adjacent to each low resolution channel.
7. (Original) The light valve of claim 6, comprising at least one high resolution channel located on either side of each low resolution channel.
8. (Original) The light valve of claim 4, comprising a plurality of uniform regularly spaced light valve elements and wherein groups of elements are connected to form at least one low resolution channel and at least one high resolution channel.
9. (Original) The light valve of claim 8, wherein at least a portion of the plurality of light valve elements are not connected to either a low resolution channel or a high resolution channel.
10. (Currently Amended) The light valve of claim 2, A light valve for use in an imaging system, the light valve comprising a plurality of individually driven channels, the channels having non-uniform sizes in accordance with a pre-determined regular pattern to be imaged; wherein the light valve has at least one low resolution channel corresponding to a low resolution feature in the

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regular pattern and wherein the light valve comprises a plurality of low resolution channels spaced apart in accordance with a plurality of low resolution features in the regular pattern.

11. (Original) The light valve of claim 1, used for imaging color filter elements on a color filter substrate.
12. (Original) The light valve of claim 1, wherein the light valve is one of:
a PLZT light valve;
a TIR light valve; or
a grating light valve.
13. (Currently Amended) An imaging system for imaging a regular pattern of features onto a substrate, the imaging system comprising:
a line illuminator;
a light valve having a plurality of individually driven channels, each channel driveable independently of each of the other channels in response to a single driver input signal to output a corresponding radiation beam from the light valve, the channels and their corresponding output radiation beams having non-uniform size in accordance with a pre-determined regular pattern to be imaged sizes; and
a driver connected to each channel; and
a lens for imaging the light valve onto the substrate.
14. (Currently Amended) A method for imaging a regular pattern of features with a multi-channel imaging head, comprising:
analyzing the pattern to identify the features;

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imaging a body portion of the a feature with a low resolution channel; and

imaging an edge of the feature with at least one high resolution channel.

15. (Currently Amended) The method of claim ~~13~~ 14, wherein the pattern is a single color separation of a multi-color image.
16. (Currently Amended) The method of claim ~~13~~ 14, wherein a plurality of features are imaged simultaneously.
17. (Currently Amended) The method of claim ~~13~~ 14, further comprising:
 - providing a substrate for receiving the imaged features; and
 - placing a dye donor element over the substrate.
18. (Original) A method of fabricating a light valve for imaging a regular pattern of features with a multi-channel imaging system, comprising:
 - analyzing the pattern to identify the features;
 - fabricating a plurality of uniform regularly spaced light valve elements on a light valve substrate; and
 - connecting groups of elements to form low resolution channels and high resolution channels, the channels corresponding to the pattern.
19. (New) A light valve according to claim 1 wherein each channel comprises a different number of individual light valve elements.

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20. (New) A light valve according to claim 1 wherein the plurality of channels comprises: a plurality of low resolution channels corresponding to a plurality of features in a regular pattern to be imaged; and a plurality of high resolution channels located adjacent to each low resolution channel, the high resolution channels corresponding to edges of the features in the pattern to be imaged.
21. (New) A light valve according to claim 20 wherein the low resolution channels are spaced apart so as to correspond with a plurality of spaced apart features in the pattern to be imaged.
22. (New) A light valve according to claim 21 comprising at least one high resolution channel located on each side of each low resolution channel.
23. (New) A light valve according to claim 1 comprising a plurality of uniformly spaced light valve elements, wherein groups of light valve elements are electrically coupled to one another to form at least one low resolution channel and at least one high resolution channel, wherein a number of light valve elements electrically coupled to form the at least one low resolution channel is greater than a number of light valve elements electrically coupled to form the at least one high resolution channel.
24. (New) A light valve according to claim 1 wherein the light valve comprises at least one high resolution

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channel corresponding to an edge of a feature in a pattern to be imaged.

25. (New) A light valve according to claim 1 wherein the plurality of channels comprises:
 - a low resolution channel comprising a low resolution number of individual light valve elements coupled to be driven by a low resolution driver; and
 - a high resolution channel comprising a high resolution number of individual light valve elements coupled to be driven by a high resolution driver, wherein the low resolution number is greater than the high resolution number.
26. (New) A light valve according to claim 25 wherein the low resolution number and the high resolution number are selected to correspond with a pattern to be imaged.
27. (New) A light valve according to claim 25 wherein the plurality of channels comprises a plurality of high resolution channels, each high resolution channel comprising a corresponding high resolution number of individual light valve elements coupled to be driven by a corresponding high resolution driver, the low resolution number greater than each of the corresponding high resolution numbers.
28. (New) A light valve according to claim 27 wherein at least a first high resolution channel is located on a first side of the low resolution channel and at least a second high resolution channel is located on a second side of the low resolution channel.

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29. (New) An imaging system according to claim 13 wherein the plurality of channels comprises:

 a low resolution channel comprising a low resolution number of individual light valve elements coupled to be driven by a low resolution driver; and

 a high resolution channel comprising a high resolution number of individual light valve elements coupled to be driven by a high resolution driver, wherein the low resolution number is greater than the high resolution number.

30. (New) A light valve for use in an imaging system, the light valve comprising:

 a first group of light valve elements having a first number of individual light valve elements electrically coupled to one another so as to be actuatable by a single first driver; and

 a second group of light valve elements having a second number of individual light valve elements electrically coupled to one another so as to be actuatable by a single second driver, wherein the first number of light valve elements and the second number of light valve elements are different from one another and an output beam emitted from the light valve by the first group of light valve elements has a size different than an output beam emitted from the light valve by the second group of light valve elements.

31. (New) A light valve for use in an imaging system, the light valve comprising:

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a first driver input for selectively activating a first channel to emit a first output radiation beam from the light valve; and

a second driver input for activating a second channel to emit a second output radiation beam from the light valve;

wherein a size of the first channel is different from a size of the second channel and a size of the first output beam is different than a size of the second output beam.